

PREPARATION OF COMPONENTS FOR REFINERY
BLENDING OF TRANSPORTATION FUELS

ABSTRACT OF THE INVENTION

5 Economical processes are disclosed for the production of
components for refinery blending of transportation fuels by
selective oxidation of feedstocks comprising a mixture of
hydrocarbons, sulfur-containing and nitrogen-containing organic
10 compounds. Oxidation feedstock is contacted with an immiscible
phase comprising at least one organic peracid or precursors of
organic peracid in a liquid phase reaction mixture maintained
substantially free of catalytic active metals and/or active metal-
containing compounds and under conditions suitable for oxidation
15 of one or more of the sulfur-containing and/or nitrogen-containing
organic compounds. Blending components containing less sulfur
and/or less nitrogen than the oxidation feedstock are recovered
from the reaction mixture. Advantageously, at least a portion of
the immiscible acid-containing phase is recycled to the oxidation.

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F09090-0006760